

# Poverty and Education: Iowa vs. the Nation

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Iowa Department of Education



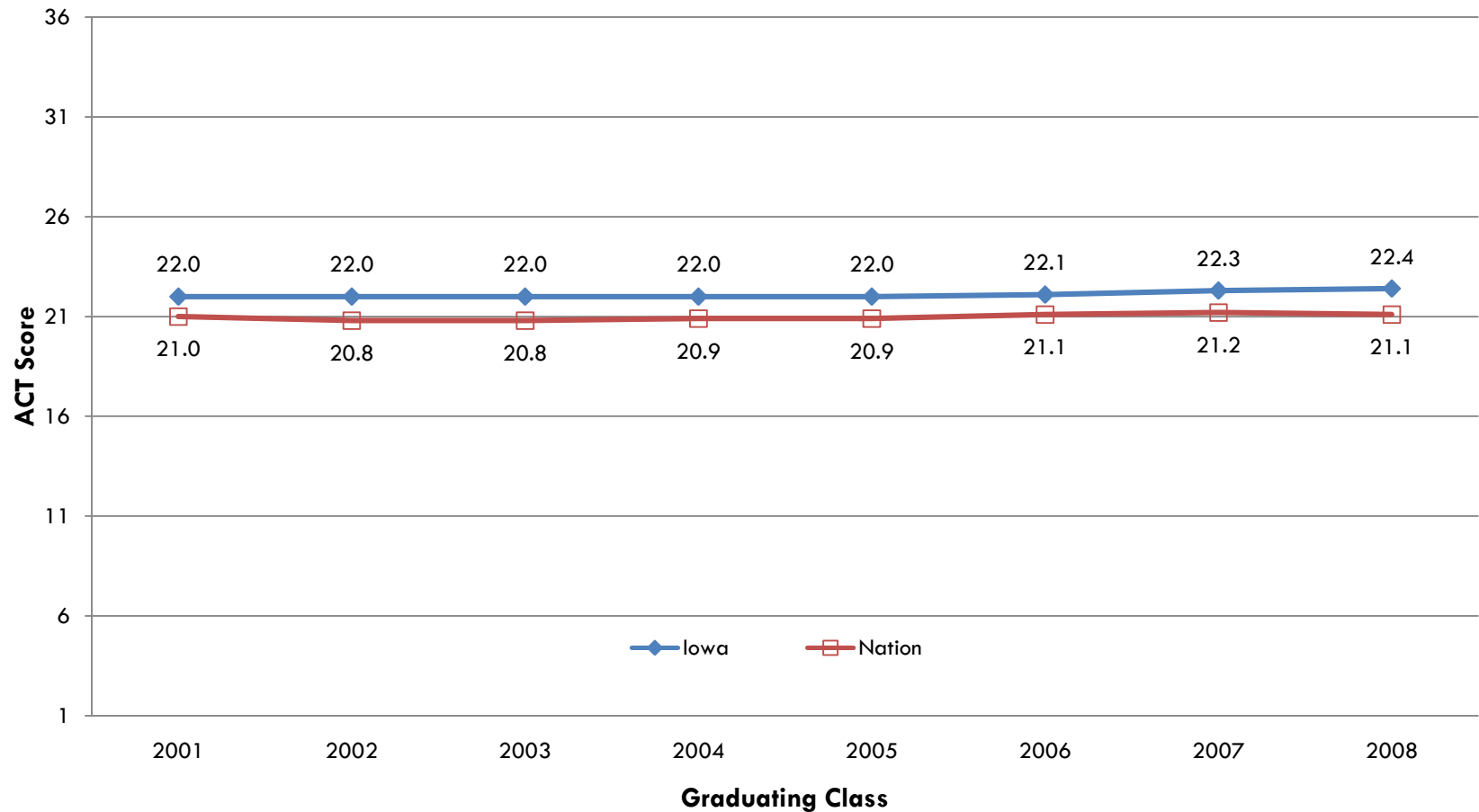
# Our Current State

2

- Achievement
- Course Taking Patterns
- Desired State

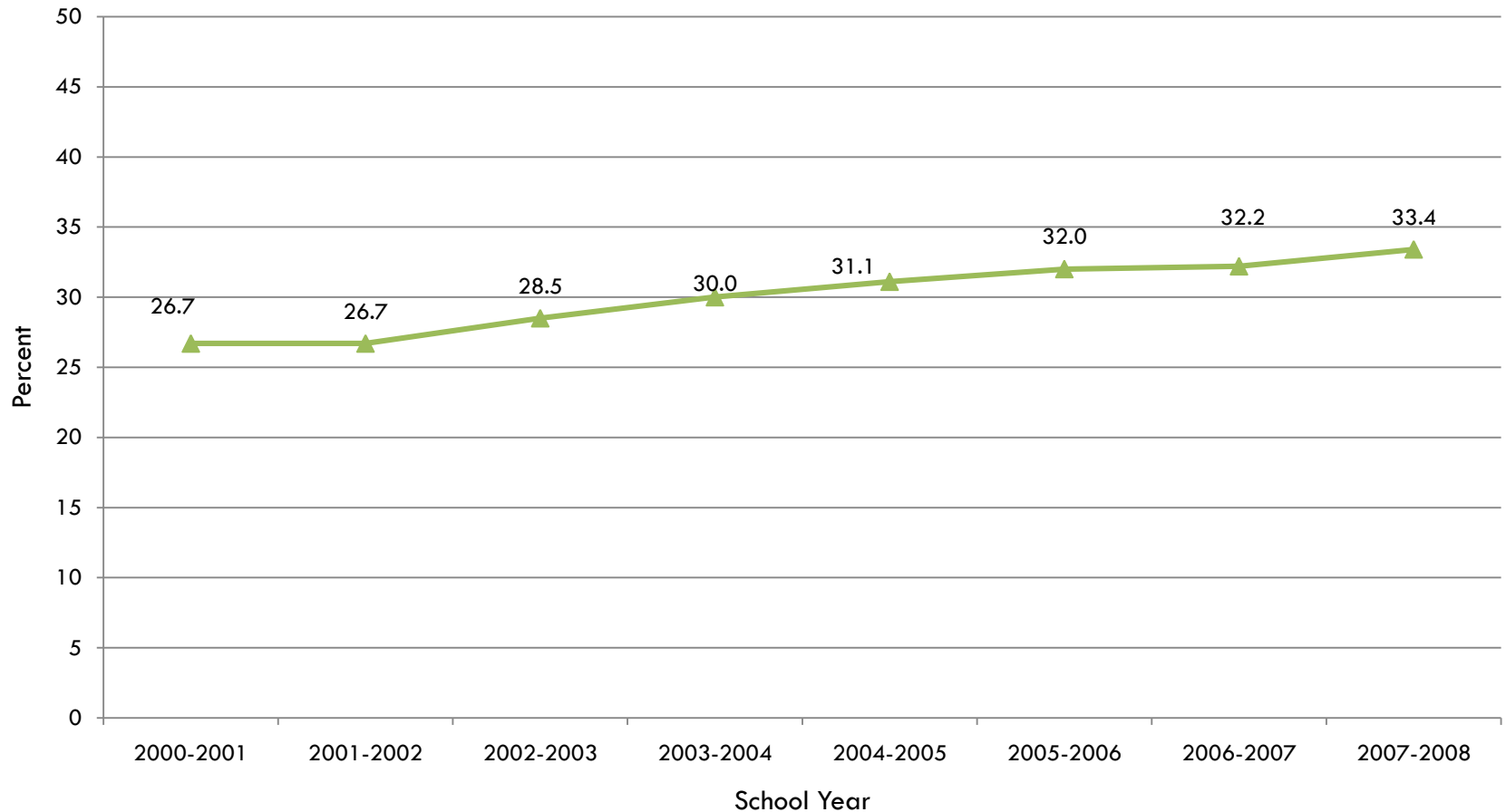
## Average ACT Composite Scores for Iowa and the Nation 2001-2008

3



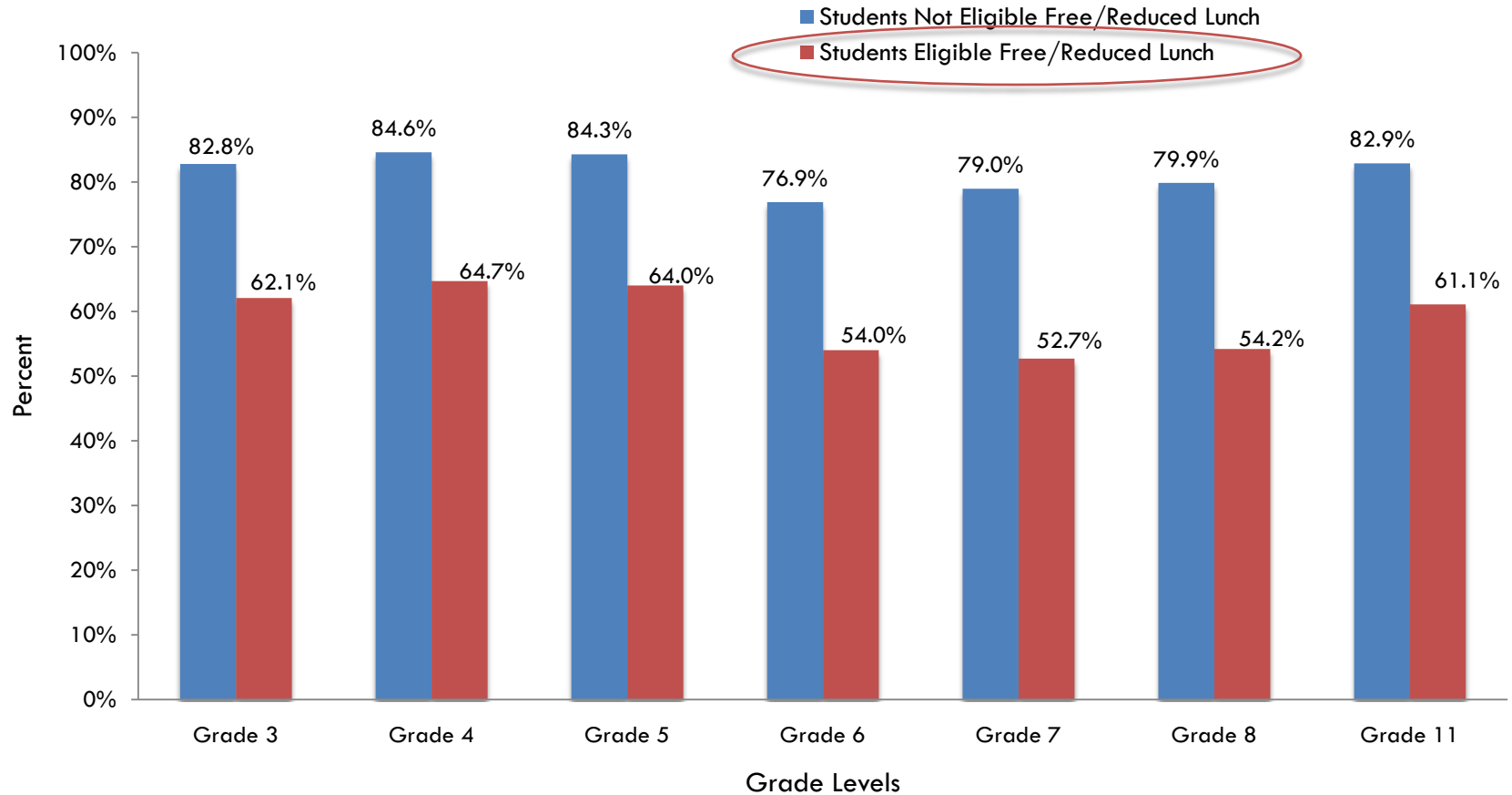
## Percent of Iowa's Public School Students Eligible for Free and Reduced-Price School Meals

4



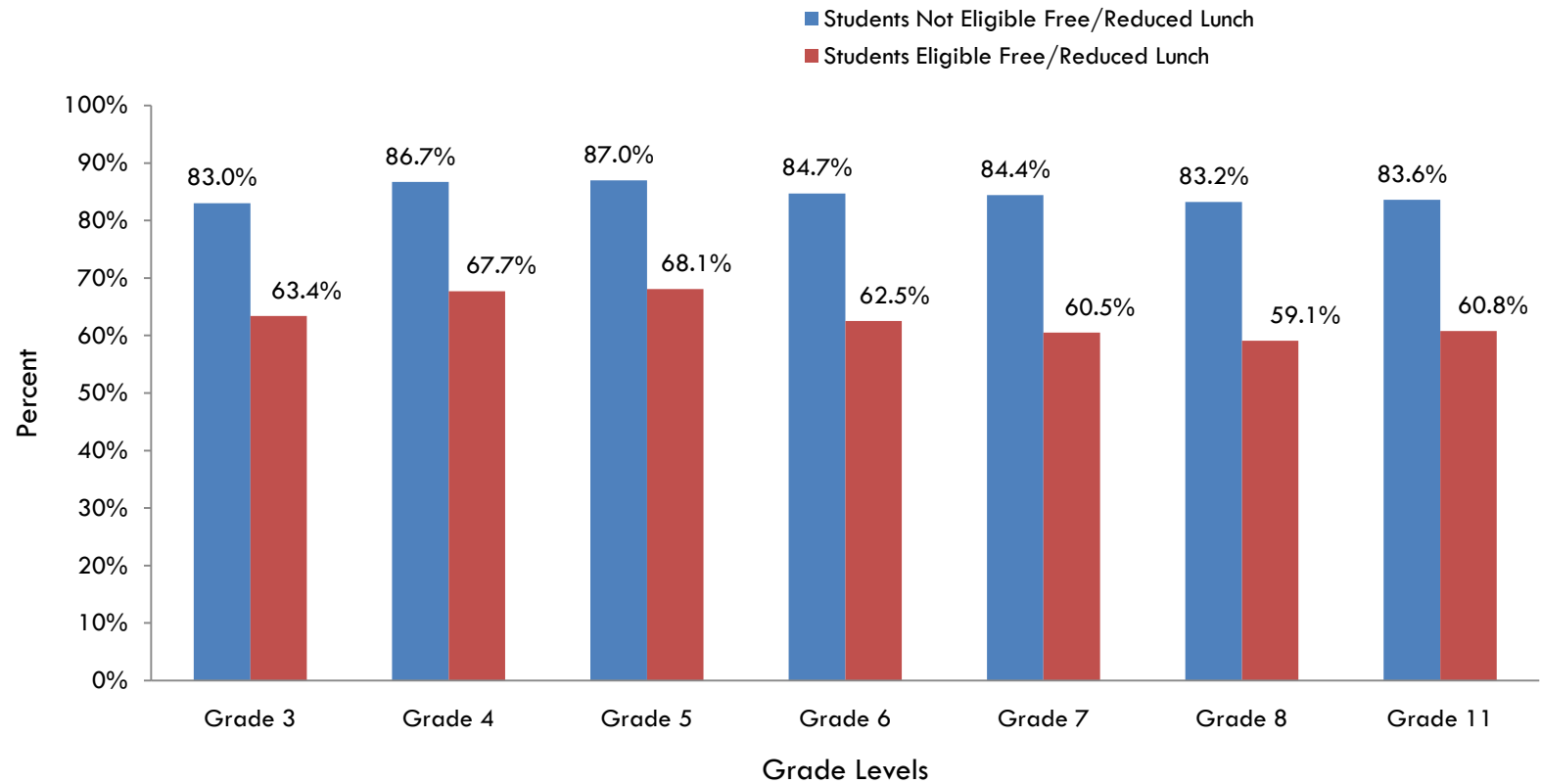
## Percent of Students Proficient in *Reading*, 2007-2008

5



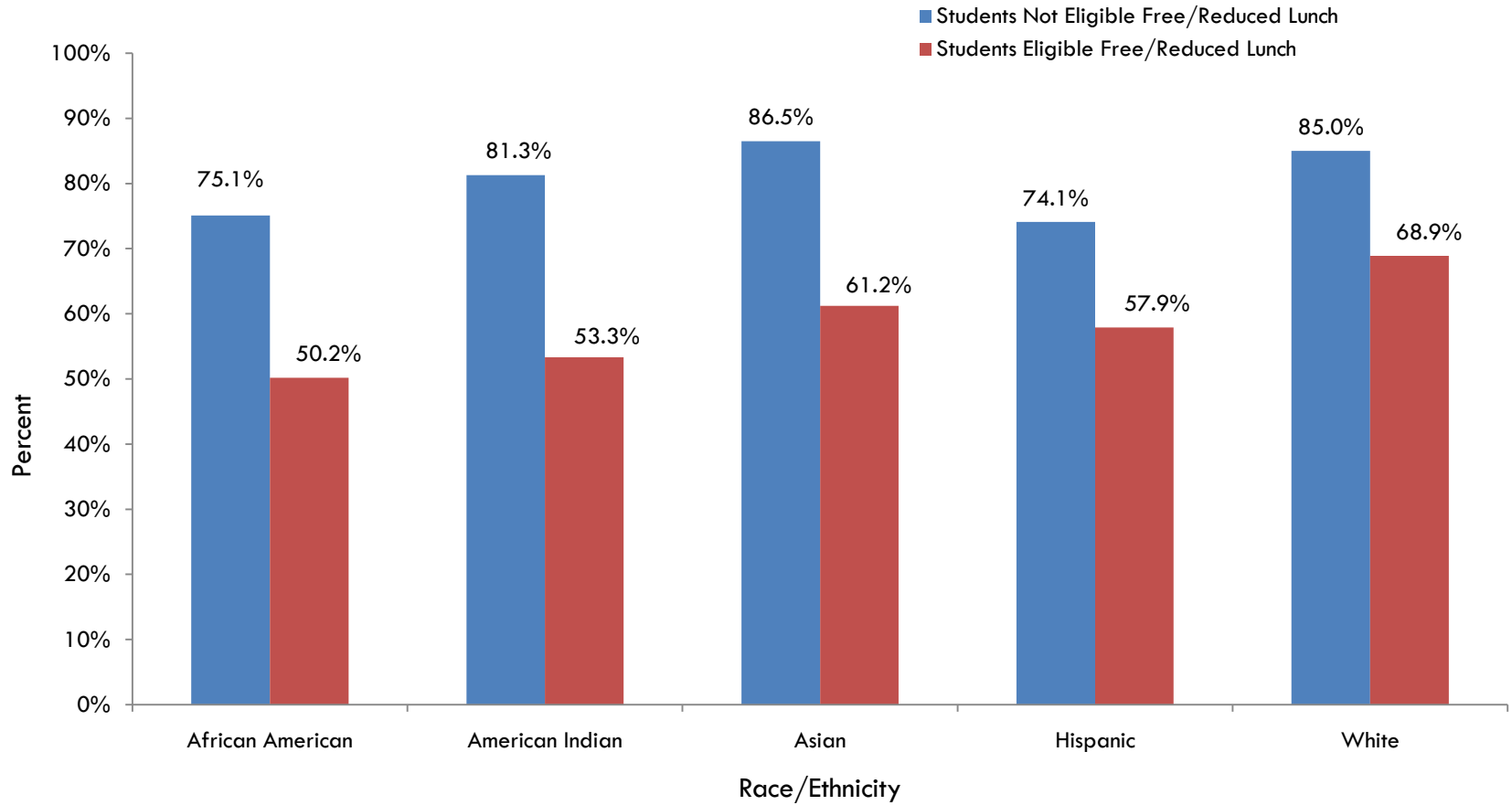
## Percent of Students Proficient in *Mathematics*, 2007-2008

6



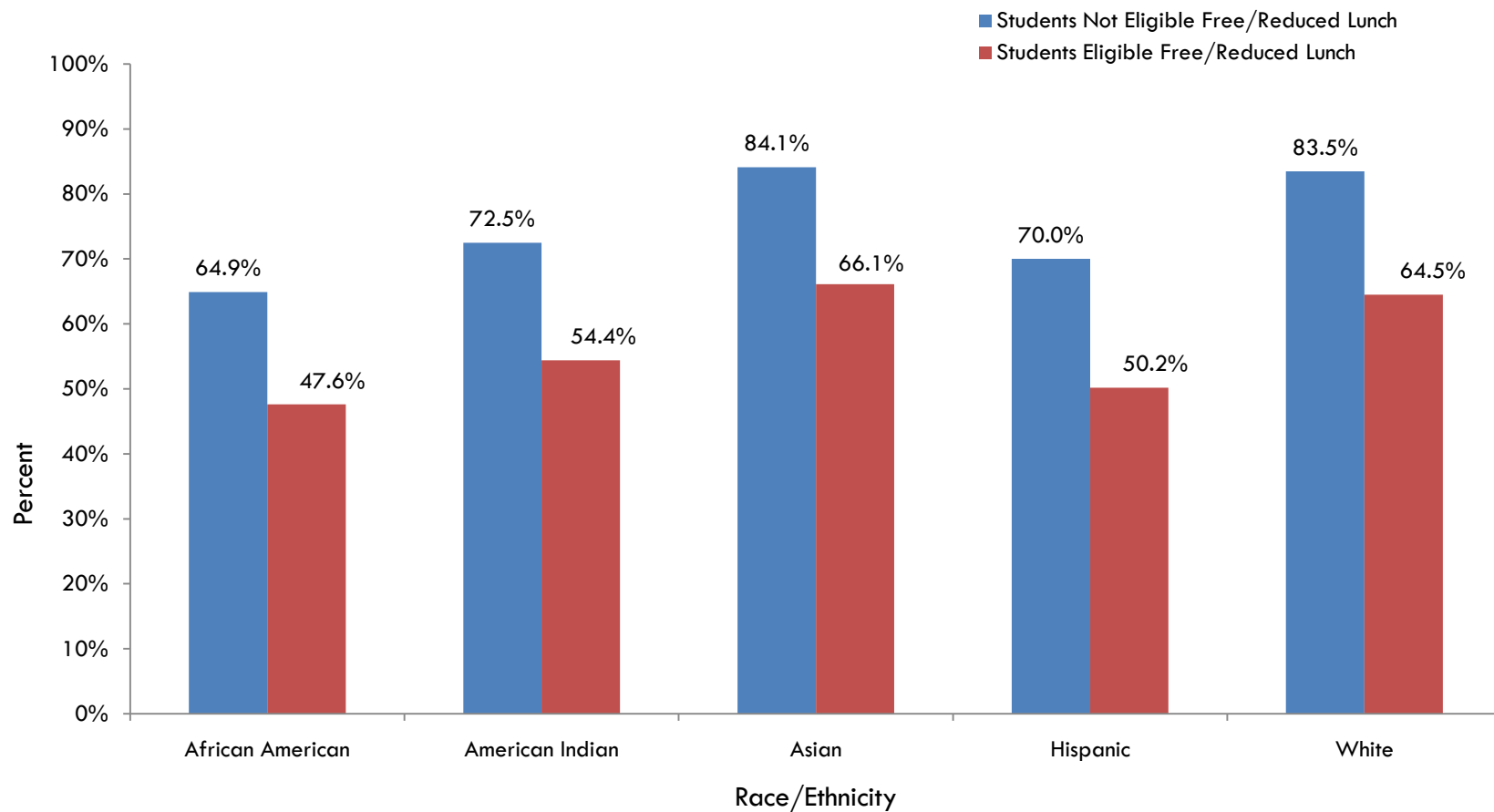
## Grade 4 Reading by Race/Ethnicity, 2007-2008

7



## Grade 11 Reading by Race/Ethnicity, 2007-2008

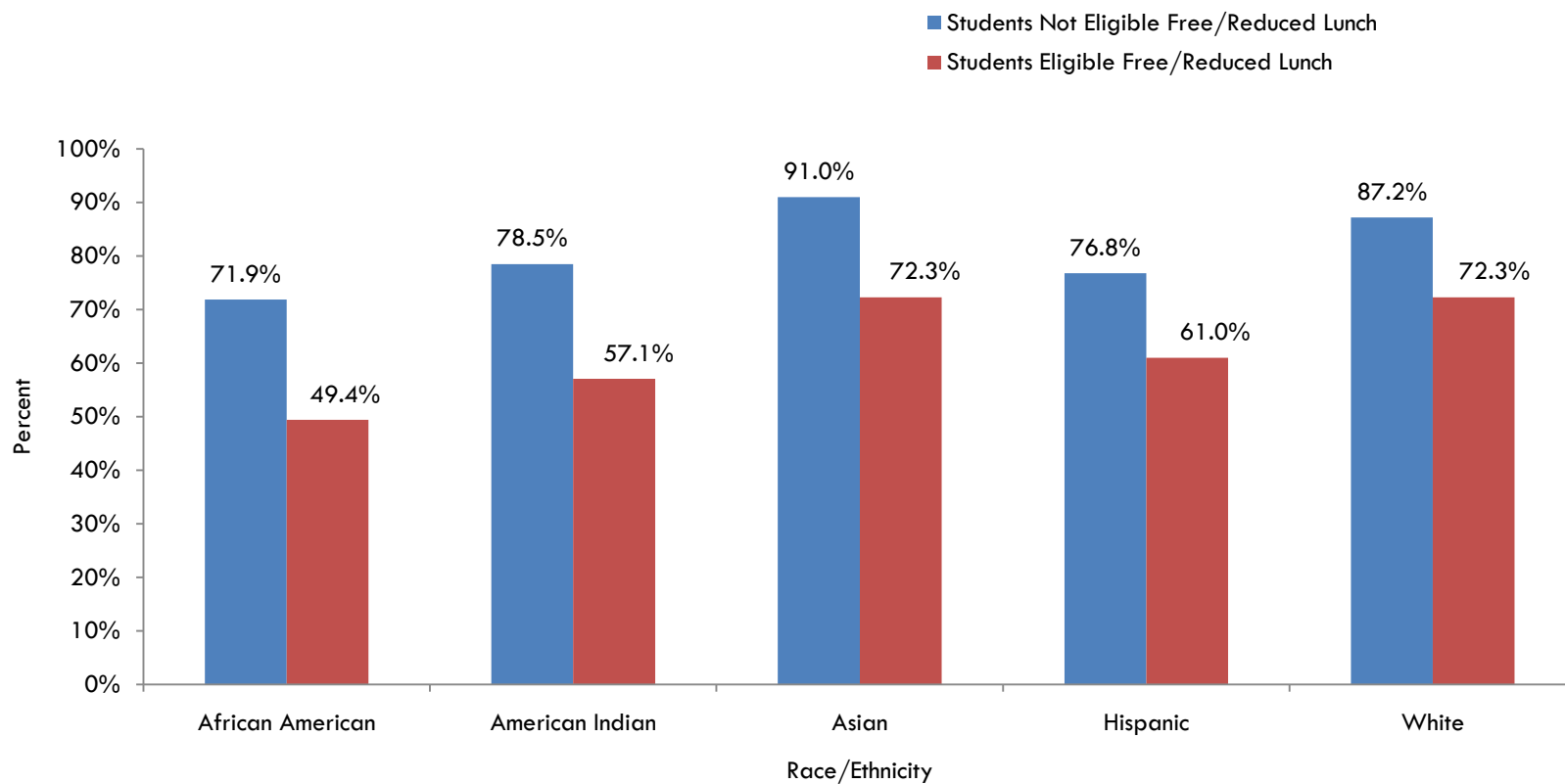
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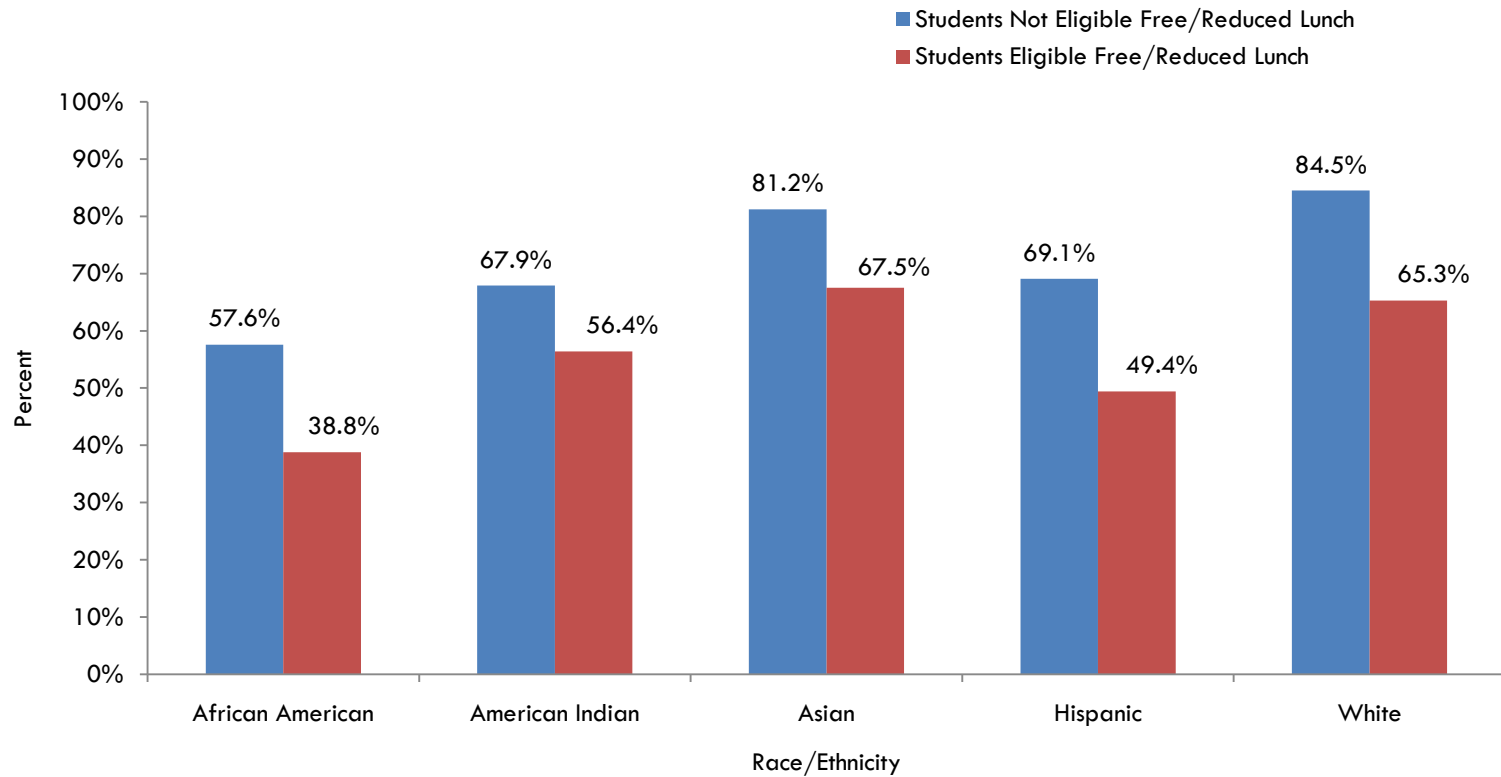
## Grade 4 **Mathematics** by Race/Ethnicity, 2007-2008

9



## Grade 11 **Mathematics** by Race/Ethnicity, 2007-2008

10



## Iowa Data

11

<b>Graduating Class of 2008</b>	<b>Number of Students</b>	<b>Average ACT Mathematics</b>	<b>Average ACT Science Reasoning</b>
On-time Public School Graduates	31,130		
ACT Test-takers (Public and Nonpublic)	22,950	22.0	22.3
Matched to the ID System and EASIER	19,252	22.0	22.3
With Grade 9 ITED Scores in 2004-2005	16,138	22.1	22.4

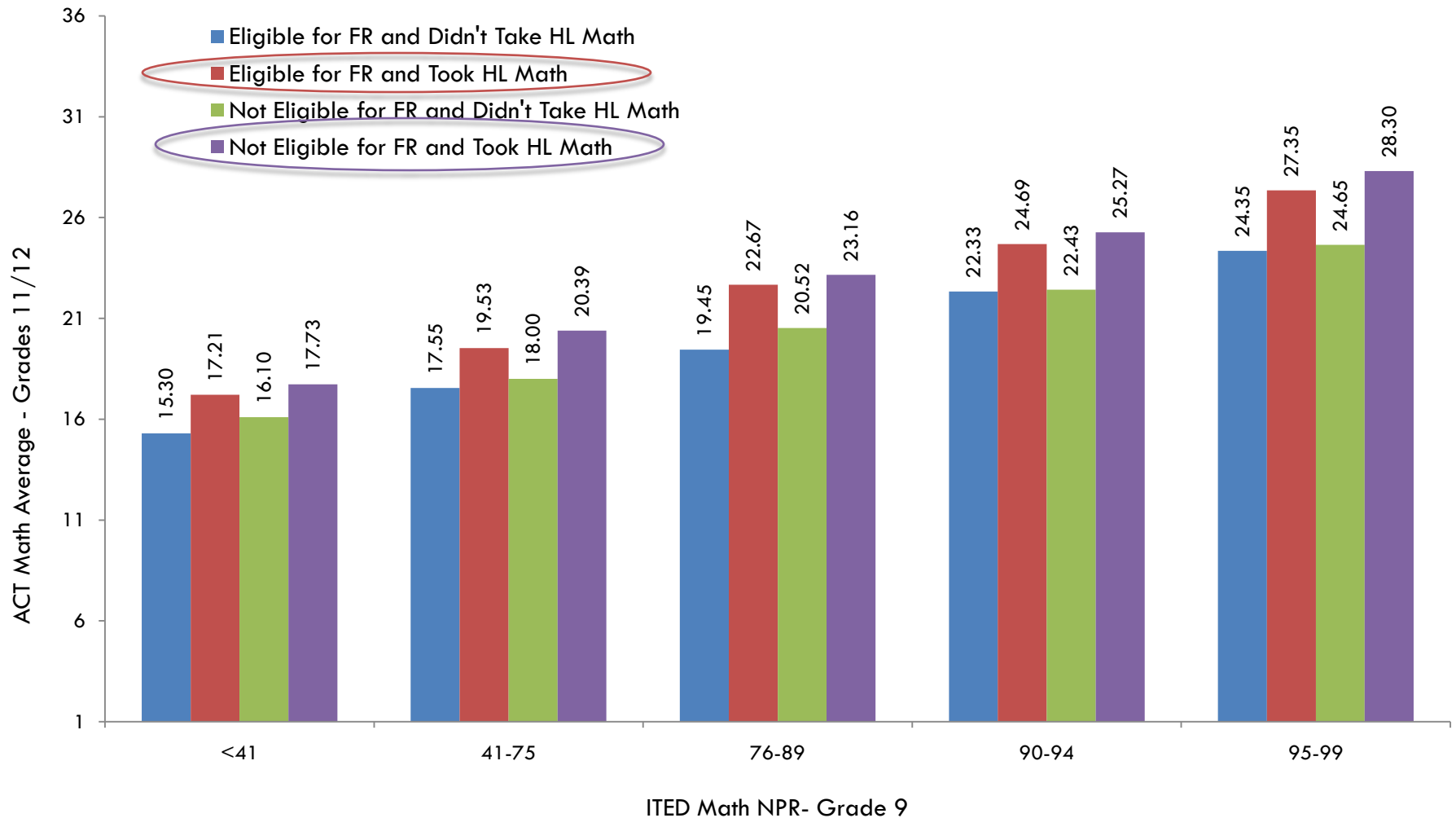
## List of Higher-Level Mathematics Courses

12

Pre-Calculus
Calculus
Trigonometry
Statistics
Advanced Placement Mathematics

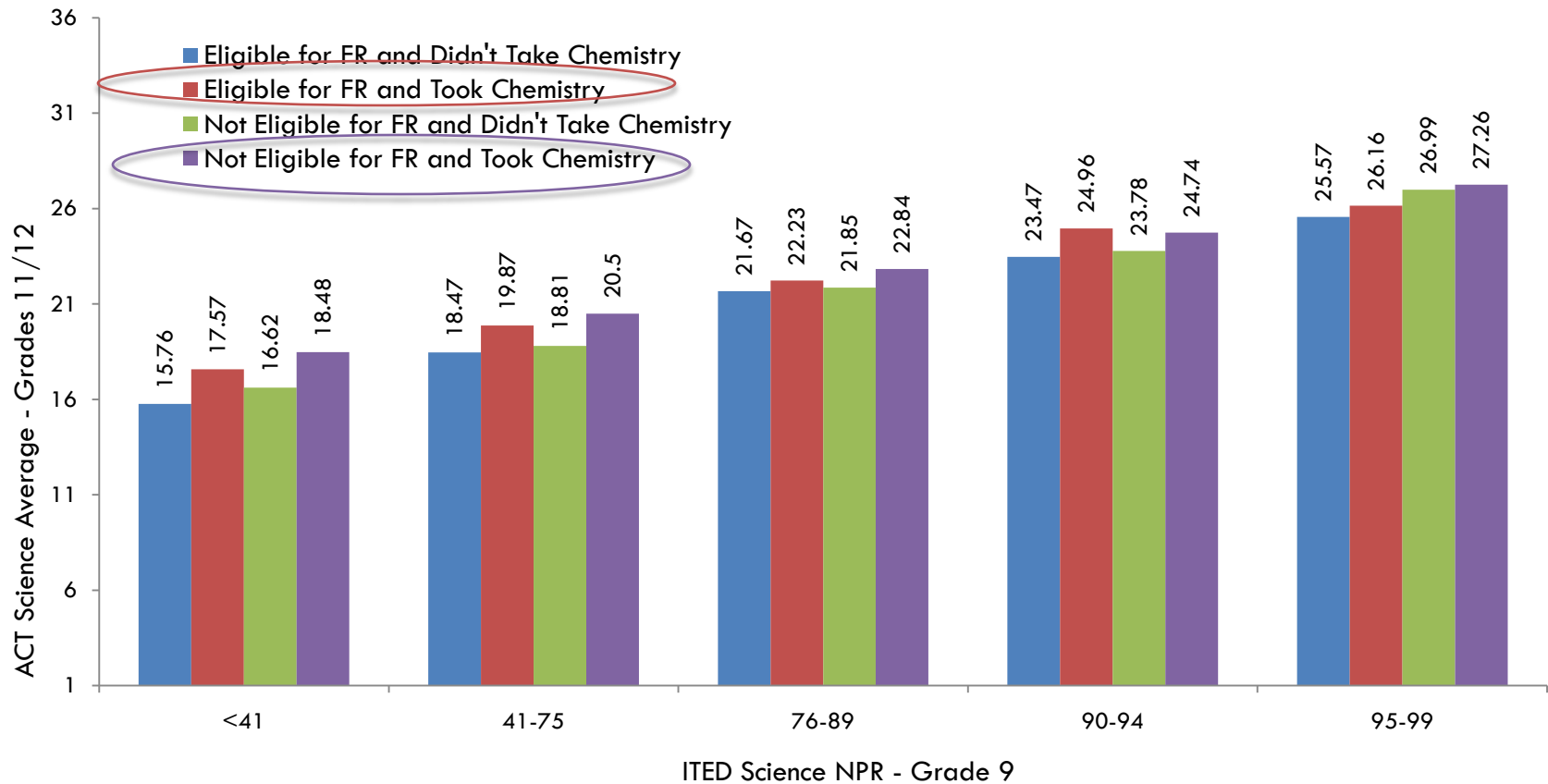
# Average ACT Mathematics vs. Higher-Level Mathematics Course Taken and Eligibility for Free/Reduced-Price Lunch

13



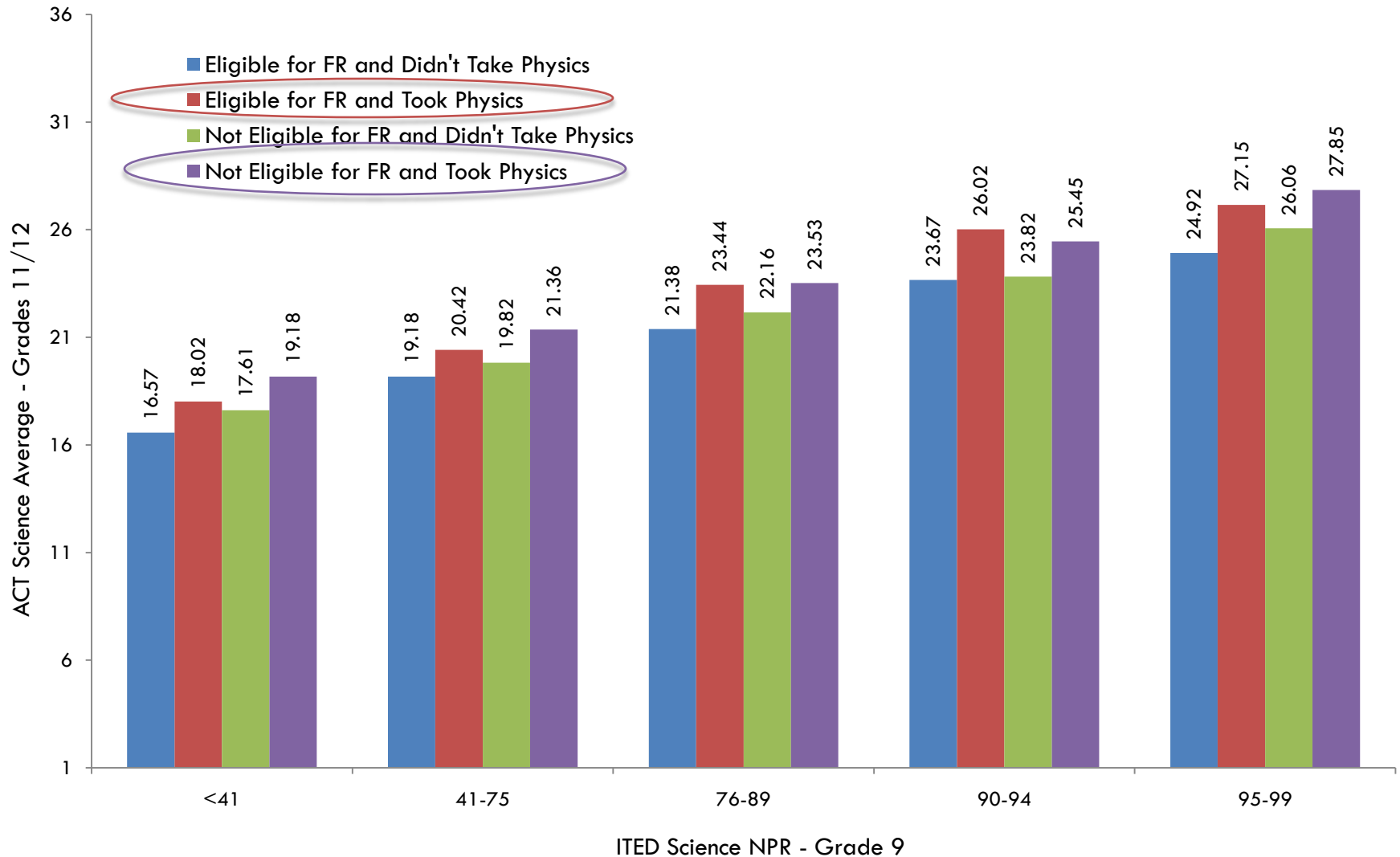
## Average ACT Science Reasoning vs. Chemistry Course Taken and Eligibility for Free/Reduced-Price Lunch

14



# Average ACT Science Reasoning vs. Physics Course Taken and Eligibility for Free/Reduced-Price Lunch

15



## Distribution of ITED NPR Scores for the 2004-2005 Grade 9 Students Who Took ACT in Grade 11 or 12 and Those Who Did Not

16

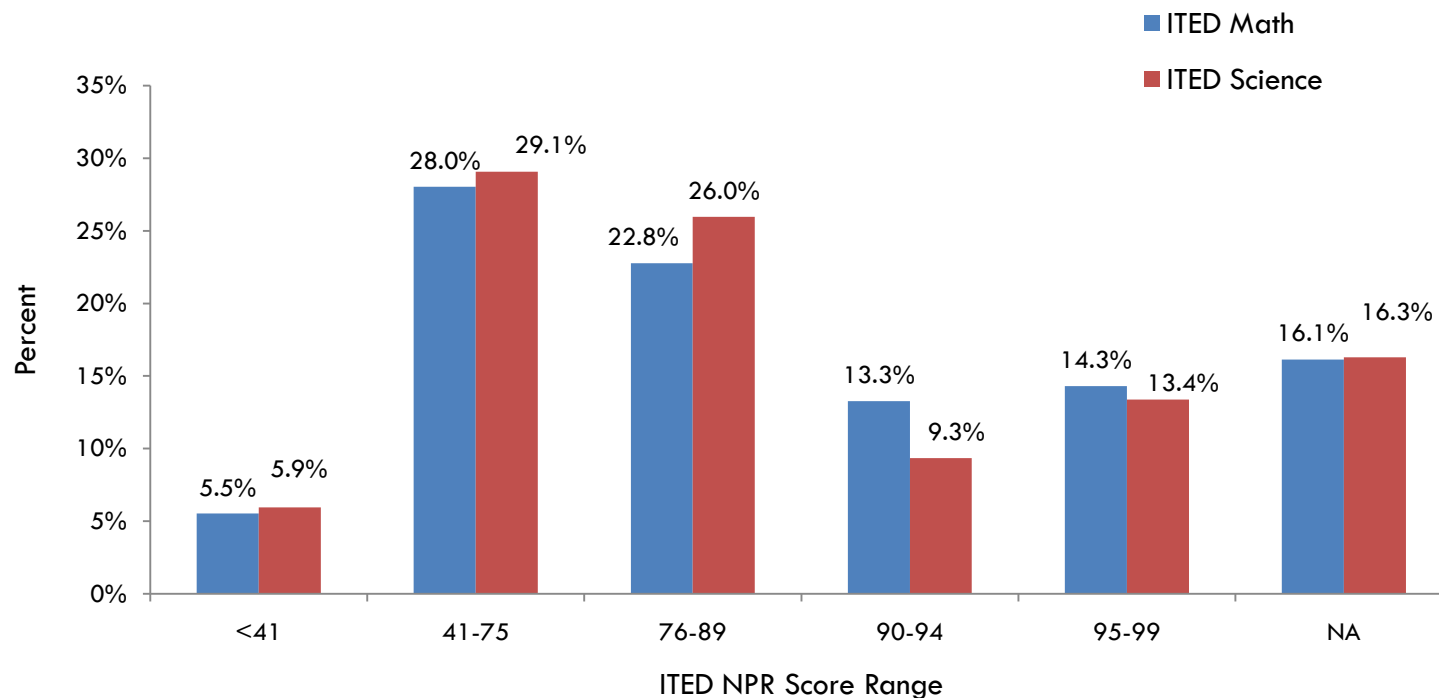
Free/Reduced Eligible	ITED NPR Score Range					ITED NA
	<41	41-75	76-89	90-94	95-99	
Number of Students with ITED and ACT Math Scores	1,064	5,401	4,387	2,555	2,755	3,109
Number of Students – Free/Reduced NOT Eligible	845	4,720	4,003	2,361	2,588	2,746
Number of Students – Eligible for Free/Reduced	219	681	384	194	167	363
Percent Students Eligible for Free/Reduced	20.6%	12.6%	8.8%	7.6%	6.1%	11.7%
Number of Students with ITED Math Score – No ACT	7,258	7,679	2,437	843	656	119
Number of Students – Free/Reduced NOT Eligible	3,333	4,604	1,714	641	524	52
Number of Students – Eligible for Free/Reduced	3,925	3,075	723	202	132	67
Percent Students Eligible for Free/Reduced	54.1%	40.0%	29.7%	24.0%	20.1%	56.3%



## Appendix B-6

### ITED NPR Score Distributions of Ninth Graders in 2004-2005 who Took ACT in Grades 11/12

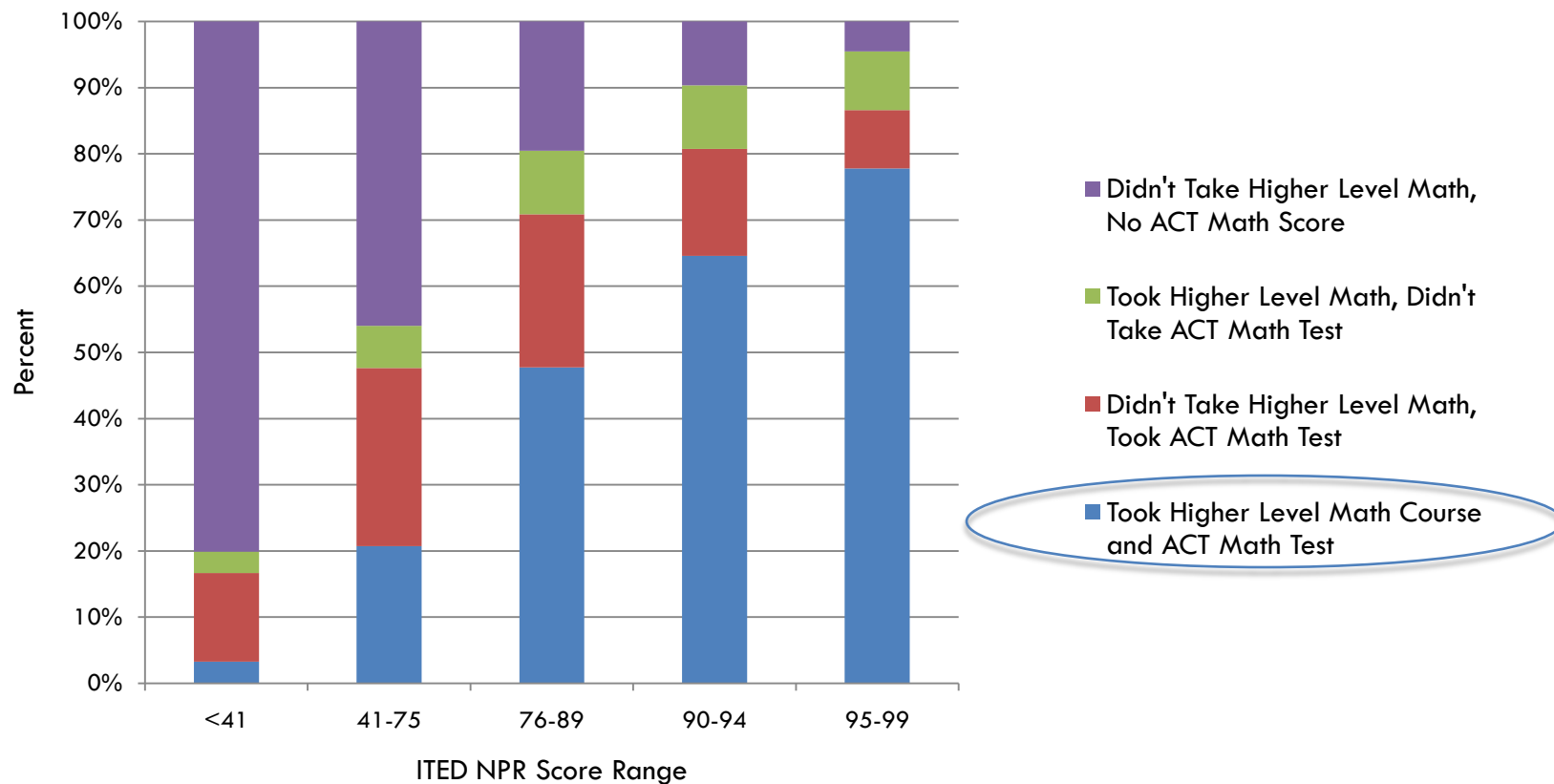
17



## Appendix A-1

### Distributions by ITED Mathematics NPR

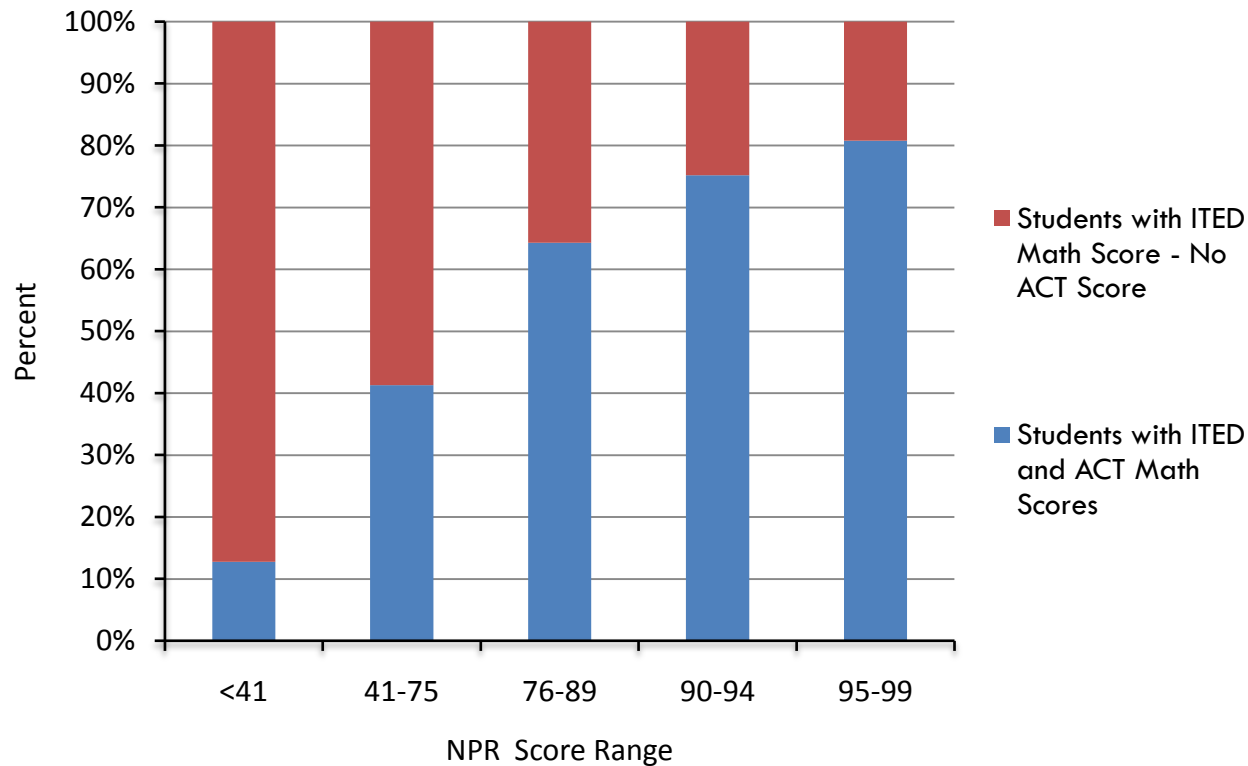
18



## Appendix A-2

### ITED NPR Score Distributions – Students Who Took ACT vs. Students Who Did Not

19



## Appendix B-2

### Race/Ethnicity Distributions

<b>Race/Ethnicity</b>	<b>Percent for Students with ACT Mathematics Scores</b>	<b>Percent of 9<sup>th</sup> Graders in 2004-2005</b>
African American	2.2%	4.7%
American Indian	0.2%	0.6%
Asian	2.1%	1.7%
Hispanic	1.8%	4.9%
White	93.7%	88.1%

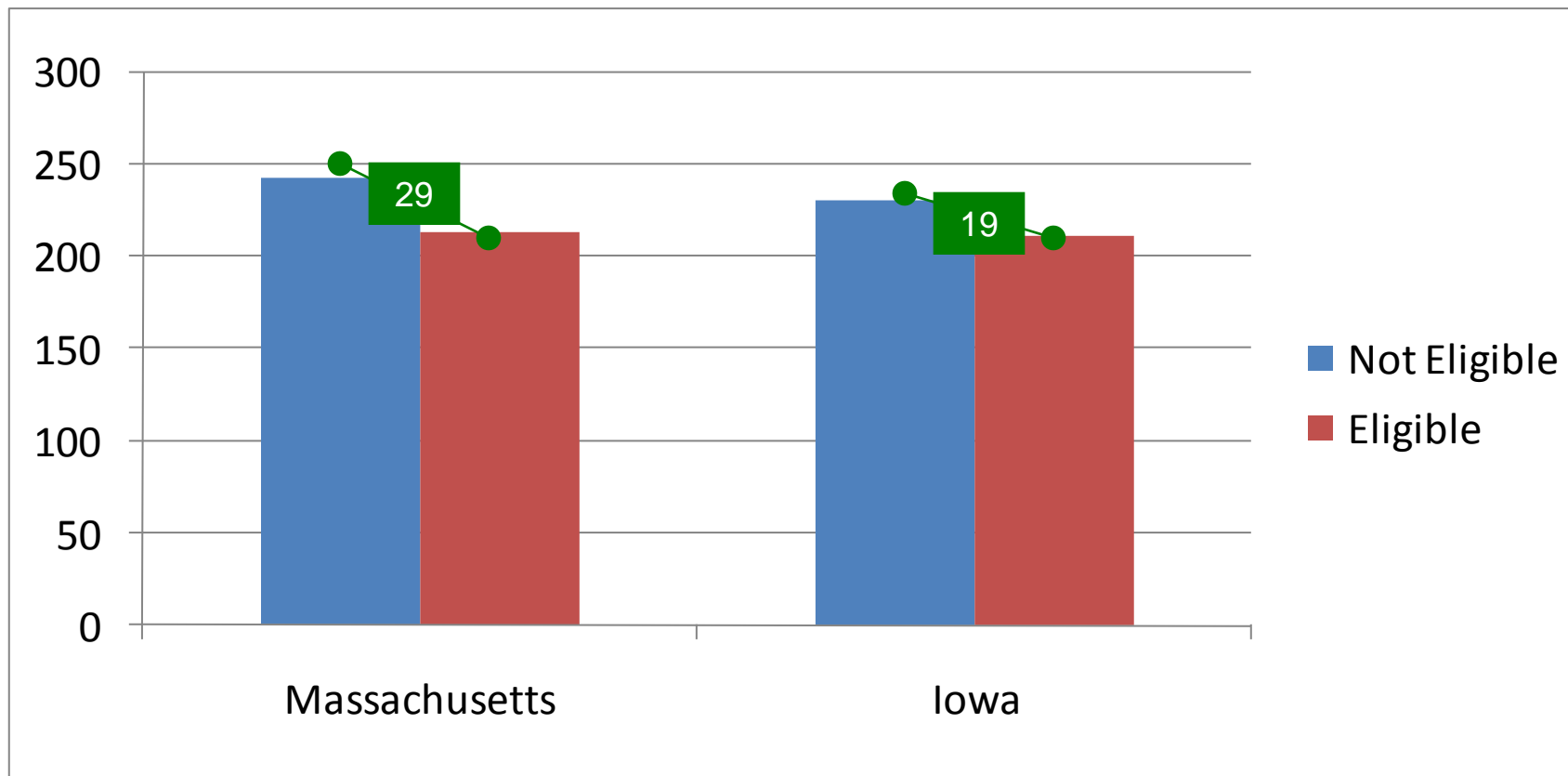
Appendix B-4  
Percent of Students Who Took at Least One Higher-Level  
Mathematics or Science Course

21

	Students with ACT Scores	Students in Graduating Class of 2008
Higher-Level Mathematics	59.6%	37.1%
Chemistry	82.9%	59.4%
Physics	38.8%	24.8%

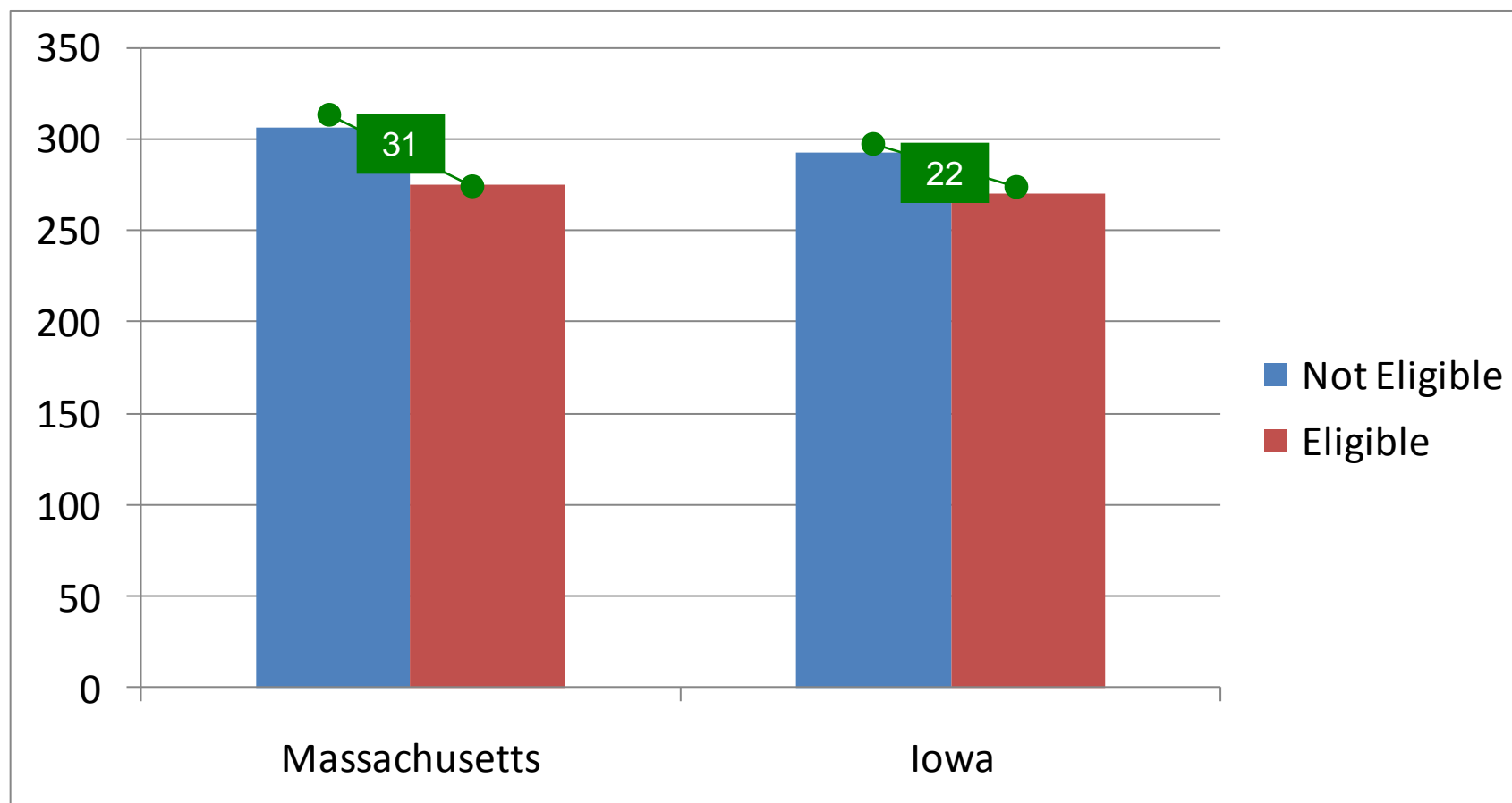
## 2007 NAEP Reading Poverty Gaps Grade 4

22



## 2007 NAEP Mathematics Poverty Gaps Grade 8

23



## ACT District Examples

District	Average ACT Math	Average ACT Science Reasoning	Grade 11 ITED Math	Percent Took Higher-Level Math	Percent Took Chemistry	Percent Took Physics	High School Size	Percent Free/Reduced Lunch
Characteristics for the few selected districts with ACT scores above the state average								
A	22.6	22.4	78.1%	42.4%	65.7%	22.2%	220-499	30.2%
B	22.0	22.3	81.1%	51.7%	60.0%	26.2%	500-999	30.9%
C	22.1	22.4	86.1%	65.4%	73.6%	14.6%	1000-1300	20.6%
D	23.5	23.5	77.5%	48.1%	59.3%	30.9%	220-499	37.2%
E	22.2	22.4	91.5%	54.0%	68.6%	26.3%	500-999	25.7%
F	22.8	22.6	80.8%	45.7%	48.2%	42.8%	1000-1300	37.5%
G	23.4	23.2	78.1%	58.3%	62.6%	33.1%	500-999	28.1%
Characteristics for the few selected districts with ACT scores below the state average								
H	17.6	18.0	69.2%	15.6%	48.9%	13.3%	220-499	50.9%
I	18.9	19.8	66.7%	16.9%	61.0%	20.3%	220-499	19.9%
J	20.5	20.3	71.0%	25.3%	61.5%	21.8%	500-999	32.9%
K	19.7	20.4	84.5%	20.6%	34.9%	11.1%	220-499	33.4%
L	20.1	21.1	76.4%	20.4%	64.8%	11.1%	220-499	31.4%
M	19.7	20.1	66.7%	6.8%	41.5%	8.5%	500-999	48.6%
N	19.5	21.2	87.3%	21.4%	68.6%	20.0%	220-499	28.4%
State	22.0	22.3	78.7%	37.1%	59.4%	24.8%	200-499	33.4%
Most districts listed had at least 50% of the graduates that took ACT.								

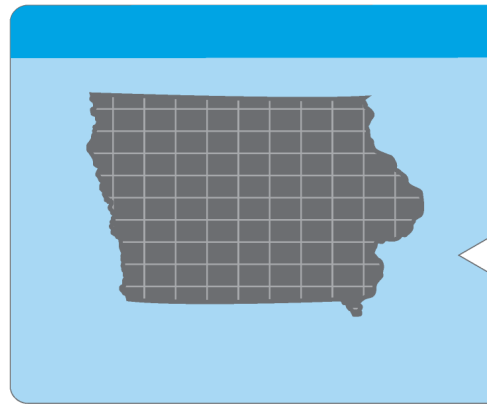


# Desired State

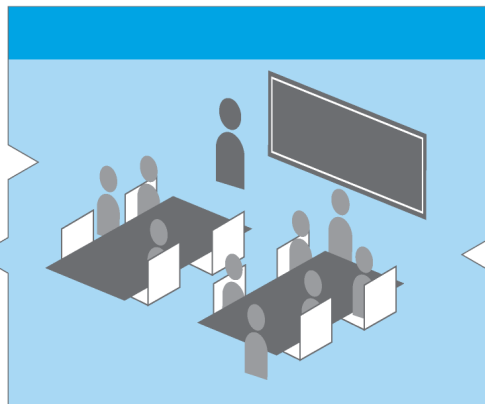
25

***Core concepts & skills for  
all students regardless of  
postsecondary goals or career track.***

# Iowa Core Curriculum



STANDARDS  
AND BENCHMARKS



**CORE** 



STUDENT  
ACHIEVEMENT

# Iowa Core Curriculum

## □ Essential Skills & Concepts

- Reading
- Math
- Science
- Social studies
- But more...



# Iowa Core Curriculum



## □ 21<sup>ST</sup> Century Skills

- Financial Literacy
- Health Literacy
- Technology Literacy
- Civic Literacy
- Employability Skills
  
- Global Literacy – *to come*

# Beyond “Basics”

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99%

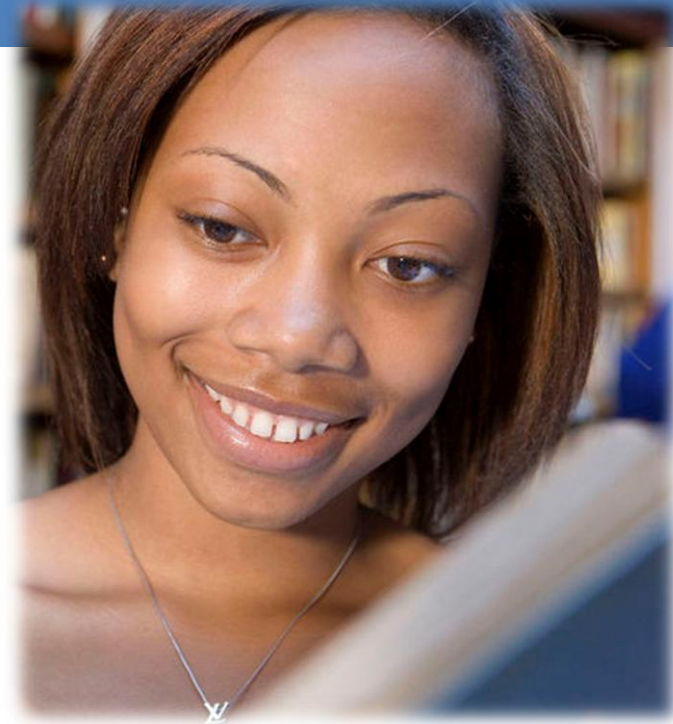
- Of voters say our country's future economic success is teaching & learning 21<sup>st</sup> century skills

80%

- Of voters say the skills students need for today's jobs is different than 20 years ago

# Benefits to Our Students

- Ensures that students will grasp big ideas
- Moves students to deep conceptual and procedural knowledge
- Provides students opportunities to learn rigorous, robust content through effective instruction
- Enhances student engagement by involving students in interesting, relevant learning experiences





Right Time, Right Work,

**Right People**

Thank you!